

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Telecommunication equipment ~~(10)~~ for setting up local telephone connections between at least one mobile telephone ~~(1)~~ belonging to a private network ~~(20)~~ and a public network, the equipment ~~including~~comprising:

—a downstream radio access system ~~(3)~~ for setting up a downstream link to a base transceiver station ~~(5)~~ of a public mobile telephone network, and

83 - an upstream radio access system ~~(2)~~ for setting up an upstream link to a mobile telephone ~~(1)~~ of the private network,

~~characterized in that~~wherein the upstream system ~~(2)~~ and the downstream system ~~(3)~~ apply the same mobile telephone standard, which is that of the public mobile telephone network,

and ~~in that it further includes~~the equipment further comprising a service signal converter module ~~(4)~~ between the upstream system ~~(2)~~ and the downstream system ~~(3)~~ adapted to:

—repeat signals ~~it receives~~received from the upstream and downstream systems, and adapt ~~them~~ the received signals to suit the characteristics of the downstream and the upstream link, respectively, and

—extract from the signaling information specific to the mobile telephones (4)
belonging to the private network and used to manage calls between the terminals of the private
network and store that information in a local database—(8).

2. (currently amended): Telecommunication equipment according to claim 1,
~~characterized in that~~wherein the downstream system (3) ~~includes~~comprises means for simulating
mobile terminal links.

3. (currently amended): Telecommunication equipment according to claim 1,
~~characterized in that~~wherein the upstream system (2) ~~includes~~comprises means for simulating
base transceiver station links.

4. (currently amended): Telecommunication equipment according to claim 1,
~~characterized in that~~wherein the downstream system (3) or the converter module (4) includes a
plurality of modules for identifying public mobile telephone network users, and ~~in that~~wherein
the converter module (4) ~~includes~~comprises means for choosing one or more identification
modules.

5. (currently amended): Telecommunication equipment according to claim 4,
~~characterized in that it includes~~comprising means for choosing the modules used which are
controlled in accordance with a criterion related to ~~the user's contract (for example the identity~~
~~of the operator)~~a contract of the user.

6. (currently amended): Equipment according to claim 1, ~~characterized in~~
~~that~~wherein the converter module (4) ~~includes~~comprises means for:

detecting, by means of a database, (8) that the user of a mobile telephone terminal (4) has a contract with the GSM public network and

for carrying out transfer without using any of the subscriber resources of the downstream system.

7. (currently amended): Equipment according to claim 1, ~~characterized in that wherein~~ the upstream system (2) further ~~includes~~ comprises means (2) for connecting a DECT or landline telephone ~~(1bis)~~.

8. (new): The telecommunication equipment according to claim 1, wherein said upstream system comprises a radio transceiver and electronic circuits, and wherein said radio transceiver and said electronic circuit set up upstream GSM links with at least one local GSM cellular telephone.

9. (new): The telecommunication equipment according to claim 1, wherein said downstream system comprises a radio transceiver and electronic circuits, and wherein said radio transceiver and said electronic circuits set up a downstream GSM link with a base transceiver station of the public GSM network.

10. (new): The telecommunication equipment according to claim 1, wherein said information extracted from the signaling comprises:

a type of a call, wherein the type of the call comprises one of an outgoing call from a mobile and an incoming call received from a mobile;

a nature of a call, wherein the nature of the call comprises voice or data; and

a user identifier, wherein the user identifier comprises an international mobile subscriber identifier or a temporary mobile subscriber identifier.

11. (new): The telecommunication equipment according to claim 1, wherein said information extracted from the signaling forms a descriptor of a local call.

12. (new): The telecommunication equipment according to claim 1, wherein said information extracted from the signaling is extracted from the signaling by a signaling capture and a processing card, and wherein said signaling capture and said processing card process the signaling in order to format it for use by said service signal converter module.

13. (new): The telecommunication equipment according to claim 1, wherein said information stored in the local database comprises:

a location information;

a temporary mobile subscriber identifier;

an encryption key;

an authentication key;

a result of a calculation performed in the public network to authenticate a user; and

an identity of algorithms used for encryption and authentication.